AASHTO T27-99 SIEVE ANALYSIS OF FINE & COARSE AGGREGATE

		APPARATUS		
			Test 1	Test 2
1.	Sieves - See General Apparatus s	ieve page.		
2.	Balance:	1 0		
3.	AASHTO: Readable to 0.1% of s Mechanical sieve shakers (Option	ample mass?		
5.	of sieving requirements?	iar), meet adequacy		1
4.	Oven, maintains $110 \pm 5^{\circ}$ C (230)	,		
		PROCEDURE		
check	ent does not have to demonstra c. Student will describe the pro- ested that student run base mix sa	ocedure to proctor. It is	Test 1	Test 2
	res of Fine and Coarse Aggregate			
	le size the same as sample for coars			
	Aggregate Initial mass:	Final mass:		
1.	Sample obtained by T248?			
2.	Minimum sample mass 300 g?			
3.	(Optional) If T11 is used, does the include a 75-µm (No. 200) sieve	-		
4.	Sample dried to constant mass at	110 ± 5° C (230 ± 9° F)?		
6.	original dry mass? Note: If specimen consists of then Step 5 does not apply beca specimen mass was determined a AASHTO: Sieving continued to	use it is assumed that total s part of that test.		
	by mass of the total specimen p one minute of continuous hand sie	asses a given sieve during		
Sieve		Mass passing		
size:	on sieve:	sieve:		
7.	Residue on each sieve weigh dry mass?	ned to 0.1% of original		
8.	Sieves not overloaded - mass of r [finer than 4.75-mm (No. 4) sieve of sieving surface (200 g for 8" d 12" diameter sieve)	es] less than 7 kg/m ²		
9.	Total mass of material after sieving sieving to within 0.3% (If not, do testing)?			
10.	Percentages calculated to the near to the nearest whole number (exc 10%, percentages reported to near	ept 75-μm - if less than		
11.	Percentage calculations based on including the passing 75-µm fractions	original dry sample mass,		

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		P	ROCEDURE		
				Test 1	Test 2
Coarse	e Aggregate	Initial mass:	Final mass:		
1.	If whole field by T248?	sample is not used, is	s test sample obtained		
2.		o constant mass at 110 :	+ 5° C (230 + 9° F)?		
3.			earest 0.1 percent of		
٥.	original dry ma				
	Note : If specimen consists of material leftover after				
	T11 then Step 3 does not apply because				
	it is assumed that total specimen mass was determined				
	as part of that t				
4.		ple mass: 3/8 in 1 kg;	<u> </u>		
		1 in 10 kg; 1 ½ in 1			
<i>E</i>		; 3 in 60 kg; 3 ½ in.			
5.		g, particles not forced to	pass through		
6.	openings?	eving continued until	not more than 0.5%		
0.		e total specimen passes			
	•	continuous hand sieving	-		
Sieve		Mass retained	Mass		
size:		on sieve:	passing sieve:		
7.	Residue on eac mass?	ch sieve weighed to 0.1	percent of original dry		
8.	Sieves not over				
	(a) Mass o	of residue on each siev	e [finer than 4.75 -mm		
	(No. 4)	(200 g for 8" diam	ed 7 kg/m ² of sieving		
	12" dia	meter sieve)	icter sieve 311 g 101		
	(b) Mass o	f residue on each sieve			
	sieves and larger] does not exceed 2.5 X (sieve opening, mm) X (effective sieving area, m²)?				
9.		naterial after sieving ag			
9.		in 0.3% (If not, do not	·		
	testing)?	mi 0.570 (11 not, d 0 not	use for acceptance		
10.	Percentages calculated to nearest 0.1% and reported to				
1.1	nearest whole				
11. Percentage calculations based on <u>original</u> dry sample mass, <u>including</u> the passing 75-µm fraction (if T11was used)?					
* Ch -			(II I I I was used)!		
" Cne	ck by nana with	8-in. diameter sieve.			

		testing)?		
	10.	Percentages calculated to nearest 0.1% and reported to nearest whole number?		
•	11.	Percentage calculations based on <u>original</u> dry sample mass, <u>including</u> the passing 75-µm fraction (if T11was used)?		
Ī	* Che	ck by hand with 8-in. diameter sieve.		
	CIIC			
D		sted: Person Assessed:	Assessor:	
	ate Te		Assessor:	
	ate Te	sted: Person Assessed:	Assessor:	